

IN THE CLAIMS

Please amend claims 1-12 and add new claims 13-28, as follows.

1. (Currently Amended) A surface acoustic wave duplexer, comprising:

a piezoelectric substrate;

a transmitting filter formed on the piezoelectric substrate;

a receiving filter formed on the piezoelectric substrate;

a transmitting (Tx) phase-rotating branching line formed on the piezoelectric substrate; and

a receiving (Rx) phase-rotating branching line formed on the piezoelectric substrate.

2. (Currently Amended) A surface acoustic wave duplexer, according to claim 1, wherein the transmitting phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

3. Currently (Amended) A surface acoustic wave duplexer, according to claim 1, wherein the receiving phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

4. (Currently Amended) A surface acoustic wave duplexer, according to claim 1, wherein the transmitting phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic, and the receiving phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

5. (Currently Amended) A surface acoustic wave duplexer, according to claim 1, wherein the transmitting phase-rotating branching line and receiving phase rotating branching line are formed by inductors.

6. (Currently Amended) A surface acoustic wave duplexer, according to claim 1, wherein the transmitting phase-rotating branching line and receiving phase-rotating branching line are formed with bonding wires.

7. (Currently Amended) A portable communication device, comprising:
an antenna;
a power amplifier; and
a surface acoustic wave duplexer, wherein the surface acoustic wave duplexer comprises:

(1) a piezoelectric substrate;

(2) a transmitting filter which is formed on the piezoelectric substrate and is connected to the power amplifier;

(3) a receiving filter which is formed on the piezoelectric substrate;

(4) a transmitting (Tx) phase-rotating branching line which is formed on the piezoelectric substrate and is connected between the antenna and transmitting filter; and

(5) a receiving (Rx) phase-rotating branching line which is formed on the piezoelectric substrate and is connected between the antenna and receiving filter.

8. (Currently Amended) A portable communication device according to claim 7, wherein the transmitting phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

9. (Currently Amended) A portable communication device according to claim 7, wherein the receiving phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

10. (Currently Amended) A portable communication device according to claim 7, wherein

the transmitting phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic, and

the receiving phase-rotating branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

11. (Currently Amended) A portable communication device according to claim 7, wherein the transmitting phase-rotating branching line and receiving phase-rotating branching line are formed by inductors.

12. (Currently Amended) A portable communication device according to claim 7, wherein the transmitting phase-rotating branching line and receiving phase-rotating branching line are formed with bonding wires.

13. (New) A surface acoustic wave duplexer, comprising:

- a piezoelectric substrate;
- a transmitting filter formed on the piezoelectric substrate;
- a receiving filter formed on the piezoelectric substrate;
- a transmitting (Tx) branching circuit formed on the piezoelectric substrate and having a plurality of branching lines coupled in parallel with each other; and
- a receiving (Rx) branching circuit formed on the piezoelectric substrate.

14. (New) A surface acoustic wave duplexer, according to claim 13, wherein the transmitting branching circuit is adjusted in its length to change a predetermined characteristic.

15. (New) A surface acoustic wave duplexer, according to claim 13, wherein the transmitting branching circuit is formed by inductors.

16. (New) A surface acoustic wave duplexer, according to claim 13, wherein the transmitting branching circuit is formed with bonding wires.

17. (New) A portable communication device, comprising:

- an antenna;

a power amplifier; and
a surface acoustic wave duplexer, wherein the surface acoustic wave duplexer comprises:

- (1) a piezoelectric substrate;
- (2) a transmitting filter formed on the piezoelectric substrate;
- (3) a receiving filter formed on the piezoelectric substrate;
- (4) a transmitting (Tx) branching circuit formed on the piezoelectric substrate and having a plurality of branching lines coupled in parallel with each other; and
- (5) a receiving (Rx) branching circuit formed on the piezoelectric substrate.

18. (New) A portable communication device according to claim 17, wherein the transmitting branching circuit is adjusted in its length to change a predetermined characteristic.

19. (New) A portable communication device according to claim 17, wherein the transmitting branching circuit is formed by inductors.

20. (New) A portable communication device according to claim 17, wherein the transmitting branching circuit is formed with bonding wires.

21. (New) A surface acoustic wave duplexer, comprising:

- a piezoelectric substrate;
- a transmitting filter formed on the piezoelectric substrate;
- a receiving filter formed on the piezoelectric substrate;
- a transmitting (Tx) branching circuit formed on the piezoelectric substrate; and
- a receiving (Rx) branching circuit formed on the piezoelectric substrate and having a plurality of branching lines coupled in parallel with each other.

22. (New) A surface acoustic wave duplexer, according to claim 21, wherein the receiving branching circuit is adjusted in its length to change a predetermined characteristic.

23. (New) A surface acoustic wave duplexer, according to claim 21, wherein the receiving branching circuit is formed by inductors.

24. (New) A surface acoustic wave duplexer, according to claim 21, wherein the receiving branching circuit is formed with bonding wires.

25. (New) A portable communication device, comprising:

- an antenna;

a power amplifier; and

a surface acoustic wave duplexer, wherein the surface acoustic wave duplexer includes:

- (1) a piezoelectric substrate;
- (2) a transmitting filter formed on the piezoelectric substrate;
- (3) a receiving filter formed on the piezoelectric substrate;
- (4) a transmitting (Tx) branching circuit formed on the piezoelectric substrate; and
- (5) a receiving (Rx) branching circuit formed on the piezoelectric substrate and having a plurality of branching lines coupled in parallel with each other.

26. (New) A portable communication device according to claim 25, wherein the receiving branching circuit is adjusted in its length to change a predetermined characteristic.

27. (New) A portable communication device according to claim 25, wherein the receiving branching circuit is formed by inductors.

28. (New) A portable communication device according to claim 25, wherein the receiving branching circuit is formed with bonding wires.